

# INTERNATIONAL SEARCH REPORT

Inte      Application No  
 PCT/US2004/018992

**A. CLASSIFICATION OF SUBJECT MATTER**  
**IPC 7 C07K1/18**

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
**IPC 7 C07K**

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, EMBASE, WPI-Data, PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	FRANKEN K L M C ET AL: "Purification of His-Tagged Proteins by Immobilized Chelate Affinity Chromatography: The Benefits from the Use of Organic Solvent" PROTEIN EXPRESSION AND PURIFICATION, ACADEMIC PRESS, SAN DIEGO, CA, US, vol. 18, no. 1, February 2000 (2000-02), pages 95-99, XP004435586 ISSN: 1046-5928 cited in the application page 97, right-hand column, paragraph 3 - page 98, left-hand column, paragraph 3 ----- -/-/	1-18

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

\* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
16 December 2004	28.12.2004
Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Ury, A

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Int'l	Application No.
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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PETSCH DAGMAR ET AL: "Endotoxin removal from protein solutions" JOURNAL OF BIOTECHNOLOGY, vol. 76, no. 2-3, 21 January 2000 (2000-01-21), pages 97-119, XP002296265 ISSN: 0168-1656 cited in the application page 103, left-hand column, paragraph 2 page 115, left-hand column, paragraph 2 abstract -----	1-18
A	BISCHOFF R ET AL: "PURIFICATION AND BIOCHEMICAL CHARACTERIZATION OF RECOMBINANT X1-ANTITRYPSIN VARIANTS EXPRESSED IN ESCHERICHIA COLI" BIOCHEMISTRY, AMERICAN CHEMICAL SOCIETY. EASTON, PA, US, vol. 30, no. 14, 9 April 1991 (1991-04-09), pages 3464-3472, XP000179424 ISSN: 0006-2960 page 3465, left-hand column, last paragraph - right-hand column, paragraph 3 page 3469, paragraph 2 -----	1-18
A	US 4 248 862 A (ELLWOOD DEREK C ET AL) 3 February 1981 (1981-02-03) the whole document -----	1-18
A	EP 0 407 037 A (MERCK & CO INC) 9 January 1991 (1991-01-09) the whole document -----	1-18
A	US 4 832 751 A (DOMELSMITH LINDA N ET AL) 23 May 1989 (1989-05-23) the whole document -----	1-18
A	US 5 045 456 A (RIENSTRA MARK S ET AL) 3 September 1991 (1991-09-03) the whole document -----	1-18
A	WO 99/63076 A (IMMUNE RESPONSE CORP INC) 9 December 1999 (1999-12-09) the whole document -----	1-18

## Information on patent family members

national Application No  
PCT/US2004/018992

Patent document cited in search report	Publication date		Patent family member(s)		Publication date
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